

Coast Guard, DOT

§ 116.422

and decks may be constructed of approved (b) * * * noncombustible materials.

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TABLE 116.415(b) BULKHEADS

Spaces	(1)	(2)	(3)	(4)	(5)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Control Space (1)	B-0	A-0	A-0	A-0	A-15	A-60	A-0	A-60	A-60	A-60	A-0	A-0
Stairway (2)		C	A-0	A-0	A-0	A-60	A-0	A-15	A-15	A-15	A-0	A-0
Corridor (3)			C	A-0		A-0	B-0	A-0	A-0	A-0	A-0	A-0
Embarkation Station (4)				C	A-0	A-0	A-0	A-0	A-0	A-0	¹ C'	C
Low Risk Accommodation (5)					B-0	A-15	² B-0	A-15	A-15	A-15	A-0	A-0
High Risk Accommodation (7) ...						A-60	² B-0	A-60	A-60	A-60	A-0	A-0
Low risk service spaces (8)							C	A-0	A-0	A-0	A-0	A-0
High risk service spaces (9)								³ C	A-0	A-0	A-0	A-0
Machinery spaces (10)									C	A-0	A-0	A-0
Cargo spaces (11)										A-0	A-0	A-0
Voids, fuel and water tanks (12)											² C'	² C'
Open decks (not safety areas) (13).												C

¹ Boundaries of fuel tanks, auxiliary machinery spaces, and voids that contain a fire load in excess of 2.5 kg/m² (0.5 pounds per square foot) must be minimum A-0 Class construction.

² Toilet space boundaries may be reduced to C'-Class.

³ C-Class bulkheads may be used between two similar spaces, such as between two storerooms; however, an A-0 Class bulkhead shall be used between two dissimilar spaces, such as a storeroom and a workshop.

(c) * * *

TABLE 116.415(c).—DECKS

Space above	(1)	(2)	(3)	(4)	(5)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Space below:												
Control Space (1)	A-0	A-0	A-15	A-0	A-0	A-30	A-0	A-0	A-0	A-0	A-0	A-0
Stairway (2)	A-0	C	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0
Corridor (3)	A-0	A-0	A-0	A-0	A-0	A-15	A-0	A-0	A-0	A-0	A-0	A-0
Embarkation Space (4)	A-0	A-0	A-0	C	A-0	A-0	A-0	A-0	A-0	A-0	C ¹	C
Low Risk Accommodation (5)	A-15	A-15	A-0	A-0	A-0	A-15	A-0	A-0	A-0	A-0	A-0	A-0
High Risk Accommodation (7) ...	A-60	A-60	A-60	A-30	A-15	A-60	A-0	A-0	A-0	A-0	A-0	A-0
Low risk service spaces (8)	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0
High risk service spaces (9) ...	A-60	A-30	A-30	A-30	A-15	A-60	A-0	A-0	A-0	A-0	A-0	A-0
Machinery spaces (10)	A-60	A-60	A-60	A-30	A-15	A-60	A-0	C	A-0	A-0	A-0	A-0
Cargo spaces (11)	A-60	A-30	A-30	A-30	A-15	A-60	A-0	A-0	A-0	A-0	A-0	A-0
Voids, fuel tanks and water tanks (12).	A-0	A-0	A-0	¹ C'	A-0	A-0	A-0	A-0	A-0	A-0	¹ C'	¹ A-0
Open decks (not safety areas) (13).	A-0	A-0	A-0	C	A-0	A-0	A-0	A-0	A-0	A-0	A-0 ¹	C

¹ Boundaries of fuel tanks, auxiliary machinery spaces, and voids that contain a fire load in excess of 2.5 kg/m² (0.5 pounds per square foot) must be minimum A-0 Class construction.

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§ 116.422 Ceilings, linings, trim, interior finish and decorations.

(a) Ceilings, linings, and any furring incidental to their installation in control spaces, passageways, stairways, accommodation spaces and service spaces must be of noncombustible material in accordance with § 164.009 in subchapter Q of this chapter, or other standard specified by the Commandant.

(b) Bulkheads, linings and ceilings may be covered by a combustible inte-

rior finish provided that such a finish is:

(1) Approved under § 164.012 in subchapter Q of this chapter, or other standard specified by the Commandant; or

(2) Listed by Underwriters Laboratories, does not exceed 2 millimeters (.075 inches) in thickness, and has a flame spread rating of not more than 20 and a smoke developed rating of not more than 10 when tested in accordance with ASTM E-84 or UL 723 by an independent laboratory.

(c) Bulkheads, linings, and ceilings in high risk accommodation spaces may have a combustible veneer trim and decorations that do not meet the requirements of paragraph (b) of this section, provided:

(1) The overall thickness of the combustible veneer does not exceed 2 millimeters (.075 inches); and

(2) The total volume of the combustible face trim, moldings, and decorations, including veneers, in any space does not exceed a volume equivalent to a 2.5 millimeter (0.1 inch) veneer on the combined area of the bulkheads and ceiling of the space.

(d) Combustible veneers may not be used in passageways, stairway enclosures or in low risk accommodation spaces. Combustible veneers, trim and decorations may not be used in or extend into hidden spaces such as behind linings or ceilings.

(e) Partial bulkheads or decks used to subdivide a space for artistic treatment and privacy must meet the requirements of Class C bulkheads.

(f) Nothing in this subpart may be construed as prohibiting the covering of any surface, including the surfaces of corridors, stairway enclosures, and hidden spaces, with a reasonable number of coats of paint or with a marine finish meeting the requirements of § 164.012 in subchapter Q of this chapter or other standard specified by the Commandant.

[CGD 85–080, 61 FR 900, Jan. 10, 1996, as amended at 62 FR 51349, Sept. 30, 1997]

EFFECTIVE DATE NOTE: By CGD 85–080, 62 FR 51349, Sept. 30, 1997, § 116.422 was amended in paragraphs (b)(2) and (c)(1), by removing the words “20 millimeters” and adding, in their place, the words “2 millimeters” and, in paragraph (c)(2), by adding, after the word “bulkheads”, the words “and ceiling”, effective Oct. 30, 1997.

§ 116.423 Furniture and furnishings.

(a) For the purpose of this subpart, rooms containing “fire resistant furnishings” are considered to be those in which:

(1) Furniture such as chairs, sofas, and similar items are tested and meet the requirements in UL 1056 “Fire Test of Upholstered Furniture,” or meet the requirements in § 72.05–55 in subchapter H of this chapter.

(2) Case furniture such as bookshelves, desks, cabinets, counters, beds, or other freestanding furniture are constructed in accordance with the requirements in § 72.05–55 (a)(1) in subchapter H of this chapter.

(3) Draperies, curtains and other similar furnishings and decorations are flame resistant. These materials must be tested in accordance with National Fire Protection Association (NFPA) 701 “Fire Tests for Flame Resistant Textiles and Films,” and must comply with either the small or large scale tests.

(4) Rugs and carpet may be used in addition to deck coverings. Rugs and carpets must be constructed of 100 percent wool or equivalent as determined by a flame spread rating not exceeding 75 and a smoke developed rating not exceeding 100 when tested according to ASTM E-84 or have a critical radiant flux not less than 0.8 watts per square centimeter (18 BTU’s per hour per square inch) when tested according to ASTM E-648 “Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source,” and with a specific optical density not to exceed 450 in both flaming and nonflaming modes when tested according to ASTM E-662 “Specific Optical Density of Smoke generated by Solid Materials.” Also:

(i) Rugs and carpets shall not extend up bulkheads or vertical surfaces more than 10 centimeters (4 inches) above the deck.

(ii) Rugs and carpets are not permitted in machinery spaces, high risk service spaces, or areas where the spillage or leakage of flammable or combustible liquids is possible including areas immediately adjacent to bar service areas.

(b) Passageways and stairway enclosures shall contain only fire resistant furnishings. In addition, all upholstered chairs, sofas, etc., in these areas, shall be tested and meet the requirements in UL 1056 or have padding and upholstery of approved fire resistant materials.